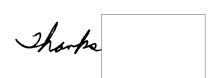
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George:

Attached is a copy of the Presentation Richard R. Schieffelin (QSI Contractor) is presenting in Chicago on 25 March 1983 at the DPMA Conference.



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QUALITY SYSTEMS INCORPORATED

8401 ARLINGTON BLVD., FAIRFAX, VIRGINIA 22031 (703) 573-7449

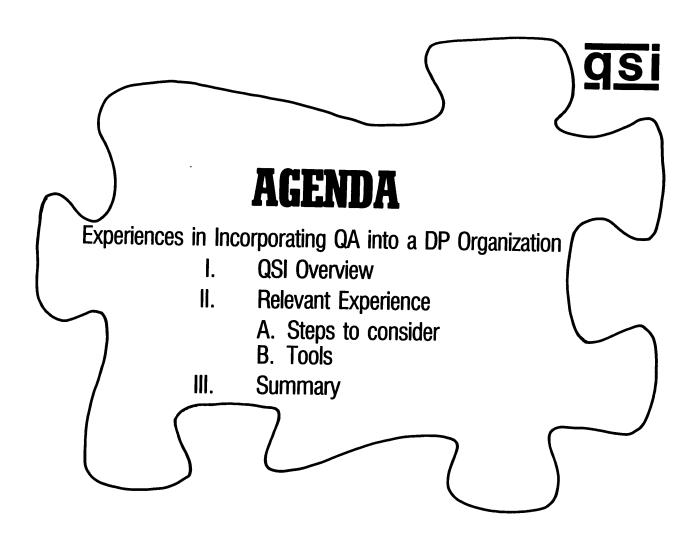
RICHARD R. SCHIEFFELIN PRINCIPAL QUALITY ASSURANCE ANALYST

<u>gs</u>i

Quality

Systems

Incorporated







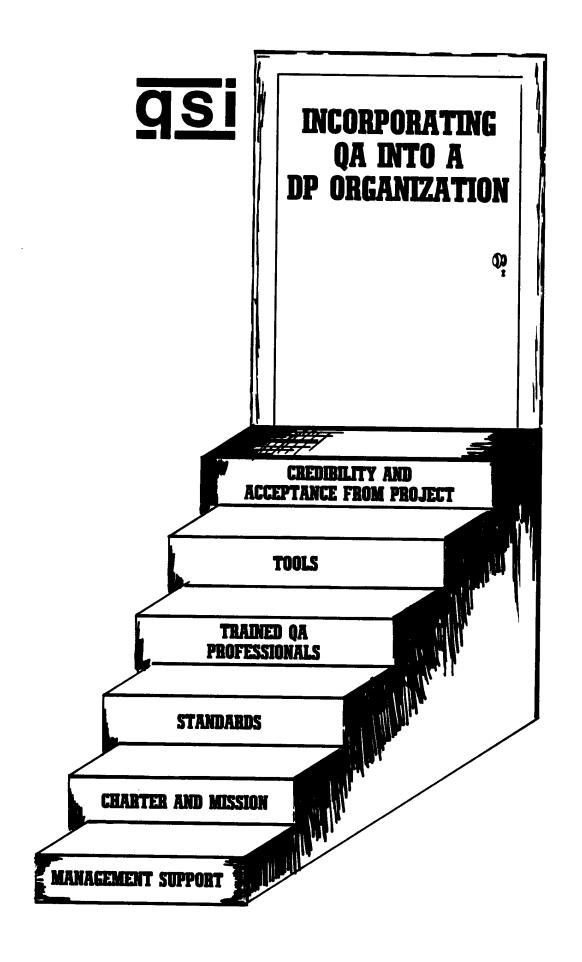
Contract Activities Overview

Projects

- Systems Integration
- Systems Development
- Systems Performance Evaluation and Enhancement
- Systems Quality Assurance

Method

 Apply System Engineering Principles to Quality Assurance Problems





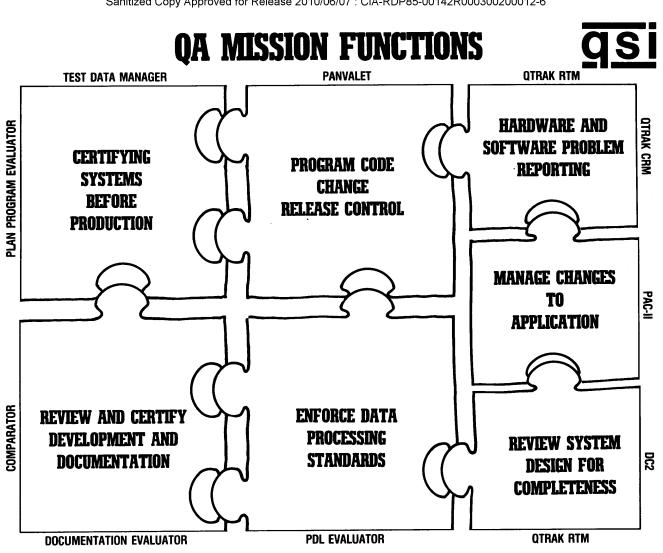
"MANAGEMENT SUPPORT HAS BEEN WON"

QSI EXPERIENCE CORROBORATES

- QA Institute Survey
- Bill Perry's article in Government Computer News

IN ADDITION

- Charter and Mission Have Been Established
- Standards Are Being Used





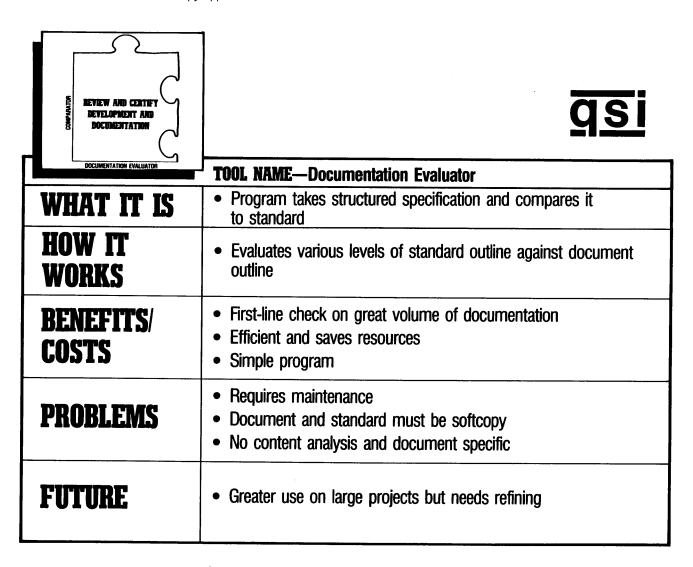


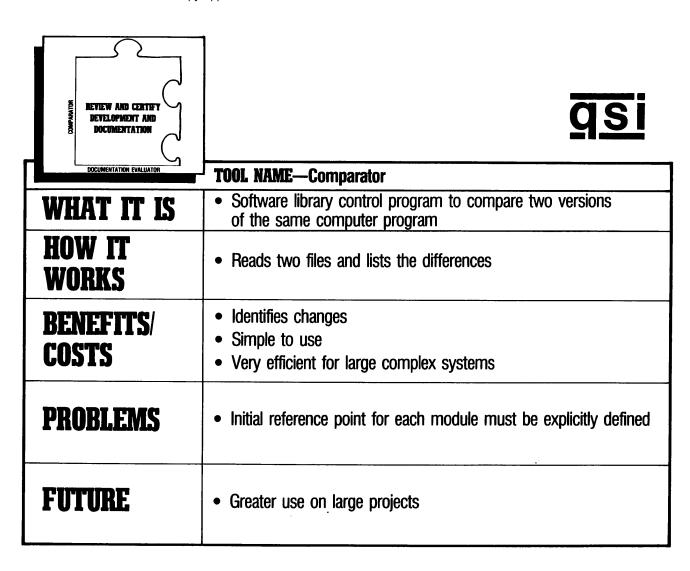
PRODUCTION	9.5.
	TOOL NAME—Test Data Manager
WHAT IT IS	Automated test data control and generation program
HOW IT WORKS	Using structured specifications: • Generates test data for acceptance test • Provides control of test data
BENEFITS/ COSTS	 Repeatability of test data assured Minimum resources required
PROBLEMS	 Start-up costs in small projects Large data storage requirements
FUTURE	Reductions in storage media cost make data generator more and more attractive

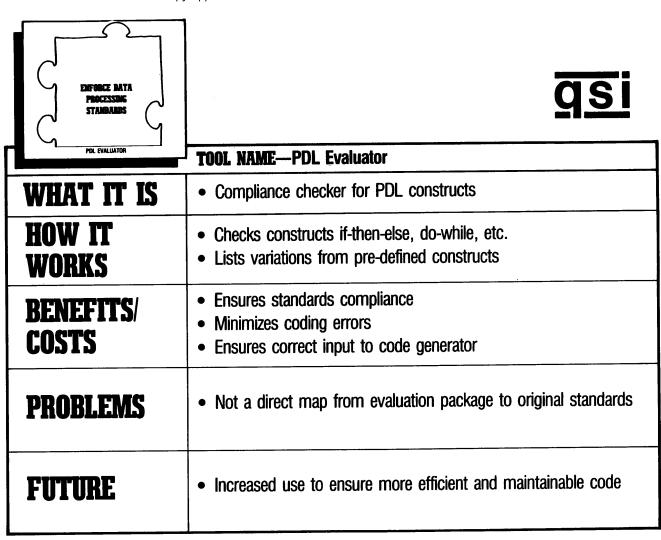


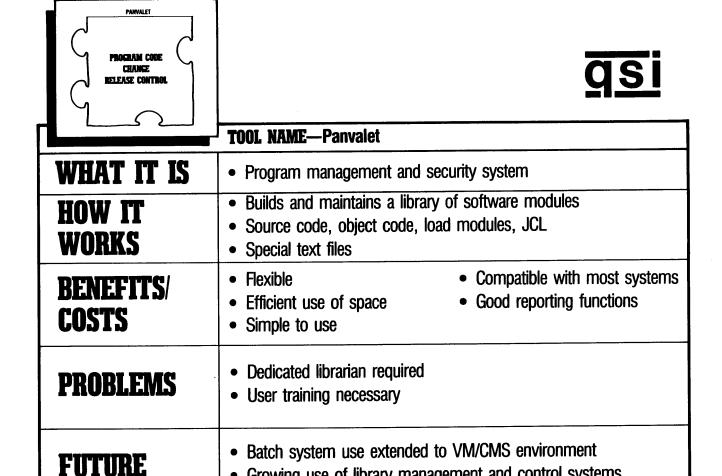


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	TOOL NAME—Boole & Babbage Plan Program Evaluator
WHAT IT IS	Comprehensive extractions and reporting system to analyze system and problem performance
HOW IT WORKS	 Builds a comprehensive central file of data Provides activity usage profiles for evaluation
BENEFITS/ COSTS	 Time/usage profiles allow identification of small areas (5—10%) of code that use large (50—70%) amounts of resources Minimal code changes provide maximum time savings
PROBLEMS	 Large extractor data files Additional module analysis may reveal recoding requirements System priority required for fixed resource allocation
FUTURE	Improvements in evaluator being made to support real-time examinations

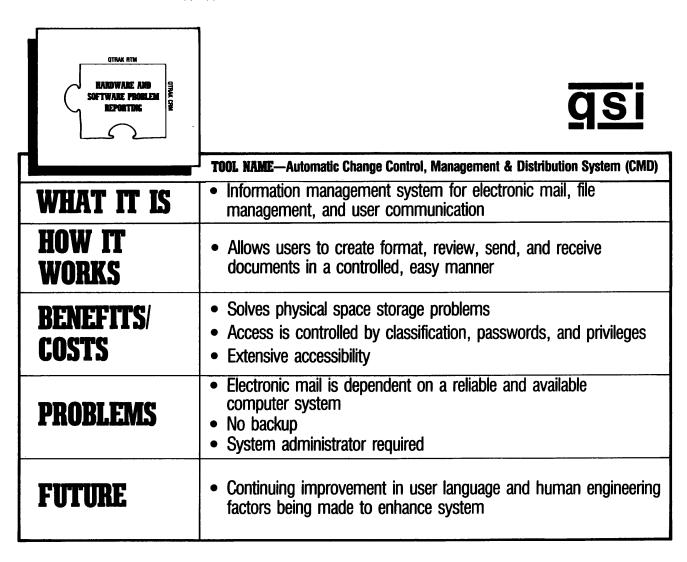


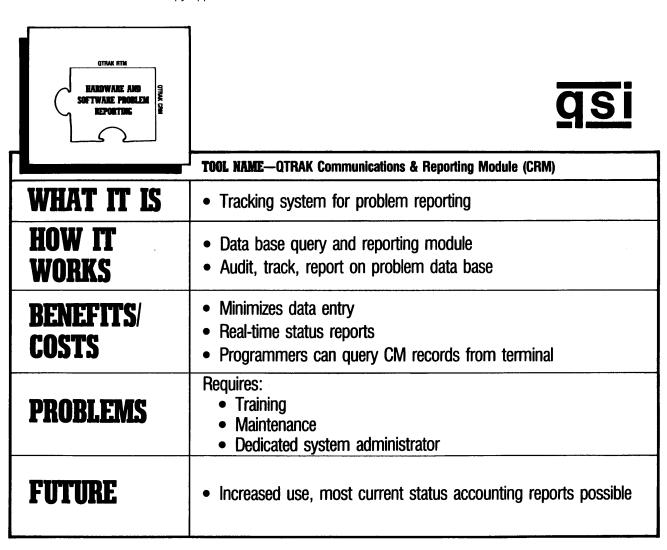


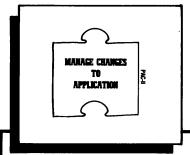




• Growing use of library management and control systems

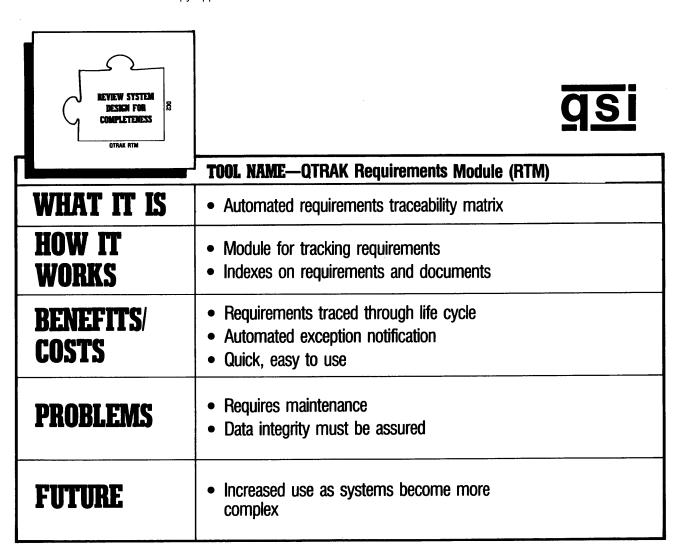


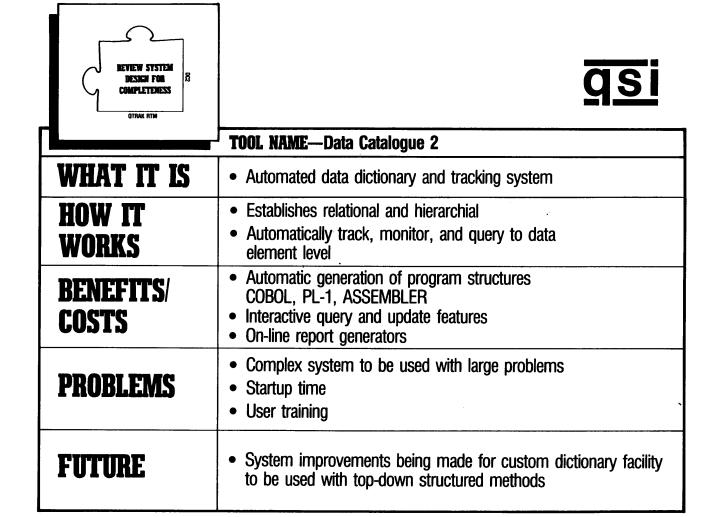






A CLASSICAL CONTRACTOR OF THE	451
	TOOL NAME—PAC-II
WHAT IT IS	Computerized project management system
HOW IT WORKS	 Allows planning, budgeting, monitoring, analyzing, and costing of projects Batch/interactive system
BENEFITS/ COSTS	 Planning analysis using interactive system Plethora of management reports Graphic capabilities
PROBLEMS	 Start-up time required Planner/administrator training required
FUTURE	 Improvements being made in MIS graphics interfaces Expanded use of exception reporting features





QA MISSION FUNCTIONS TEST DATA MANAGER PANVALET **QTRAK RTM** HARDWARE AND **QTRAK CRM** PLAN PROGRAM EVALUATOR SOFTWARE PROBLEM **CERTIFYING** PROGRAM CODE REPORTING **SYSTEMS** CHANGE **BEFORE** RELEASE CONTROL **PRODUCTION MANAGE CHANGES** PAC-II TO **APPLICATION** COMPARATOR **REVIEW AND CERTIFY ENFORCE DATA DEVELOPMENT AND PROCESSING REVIEW SYSTEM STANDARDS DOCUMENTATION DESIGN FOR COMPLETENESS DOCUMENTATION EVALUATOR PDL EVALUATOR QTRAK RTM**



TODAY'S QA ISSUES

PROBLEMS

- Significant gap in credibility and support from project personnel
 - -Lack of trained QA professionals
 - -Insufficient use of tools to support QA mission functions

SOLUTIONS

- Increased professional training
- Tools as a solution
 - -Help projects do a better job
 - -Find potential problems before become problems
 - -Provide impartial judgment
 - —Use most current methods



SUMMARY

FIRST STEPS HAVE BEEN MADE FOR INCORPORATION

- Management Support
- Charter and Mission
- Standards

THE NEXT STEPS

- Winning Credibility and Acceptance
 - -Training QA Professionals
 - —Greater Use of Tools

QA MUST

- Match the Available Tools with Functions
- Optimize Use
- Demonstrate How Tools Can Make QA and Workers More Efficient
- Develop Additional Tools